

TEF 2460 LED PERIMETER LIGHT LUMINAIRE ZONE 1 & 2 USER MANUAL



IMPORTANT

Read this instruction carefully before installing the product

INTRODUCTION

Thank you for purchasing this product!
For installation, maintenance and assurance of a long life of this product, please follow this manual.

APPLICATIONS

- Perimeter lights on helideck.
Green or red/green light (24V DC only).
- Zone 1, zone 2 and safe area

CONTENT IN BOX

The product is fully assembled, and ready for installation.

TOOLS REQUIRED

Regular tools required for installation.

- Tools for mounting, e.g. 10 mm wrench – to fasten the mounting bracket to the deck.
- 4 mm hexagon key (Unbraco/Allen key) for mounting the top to the termination compartment, and for the external bonding connection. A long key, >80mm is recommended for easy installation.
- 3 mm hexagon key (Unbraco/Allen key) to loosen the screws for the terminal assembly, if necessary.
- 32mm wrench to disassemble the blind plug and assemble the cable gland.
- Wrench for tightening the pressure nut on the cable gland(s).

Do not use powertools when fastening globe!

SAFETY PRECAUTIONS

Note that changes to the product and /or installation of components which do not conform to the approval, may be a safety violation. The manufacturer will in no circumstance be held responsible for such activity. For your health and safety, always use safety gear suited for the task. Be certain to follow codes, regulations and /or specific procedures that are related to the installation.

MAINTENANCE INSTRUCTIONS

The luminaire should be inspected according to Company routines. The manufacturer suggests regular check for water intrusion in the termination compartment. Due to the silicone potting compound used in this product, some silicone oil may condense on the inside of the glass. All electronics are sealed, so this will have no technical concern. When cleaning, use only mild detergents. Alcohol or petroleum based products may damage the gaskets.

APPROVALS

IECEX / ATEX CERTIFIED

Ex e mb op is IIC T5 Gb

According to:

EN 60079-0:2012
EN 60079-7:2007
EN 60079-18:2009
EN 60079-28:2007
IEC 60079-0:2011
IEC 60079-7:2006
IEC 60079-18:2009
IEC 60079-28:2006
CE 0470

INSTALLATION INSTRUCTIONS

Only qualified personnel are allowed to perform installation and maintenance tasks to this product.

The equipment is ready for installation when leaving the production facilities of Tranberg AS. Check the condition of the equipment and the contents when unpacking. Any damage done to the equipment during transportation is not the responsibility of Tranberg AS. If the content is not complete, file a claim to the manufacturer immediately.

The TEF 2460 is delivered with several mounting options. A mounting bracket for flat surfaces is standard. For the light output to be in accordance with any regulations listed in this document, the perimeter light is to be mounted on a horizontal surface coincident with the helideck.

The luminaire must always be installed in an upright position. Any other mounting positions should not be used for permanent installation, without a confirmation from Tranberg's technical department. If the luminaire is mounted on a vessel or a floating installation, movements such as roll and pitch which moves the luminaire out of its original upright position, is not taken into account.

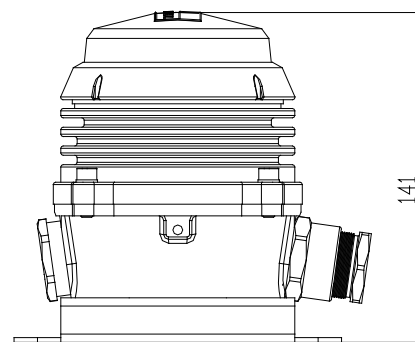
When mounting the top to the connection compartment, make sure no cables or the safety wire are jammed between the two parts. This will dramatically reduce the ingress protection, and impair the mode of protection regarding hazardous areas. When mounted, there shall be no noticeable gap between the top and the connection compartment. If a gap is present after the screws are tightened, lift the top, turn it 90° to help the cables and wires connecting the two parts to form a coil and try again.

Not following these instructions may lead to a risk of water ingress into the luminaire. The manufacturer assumes no responsibility when these guidelines are not followed.

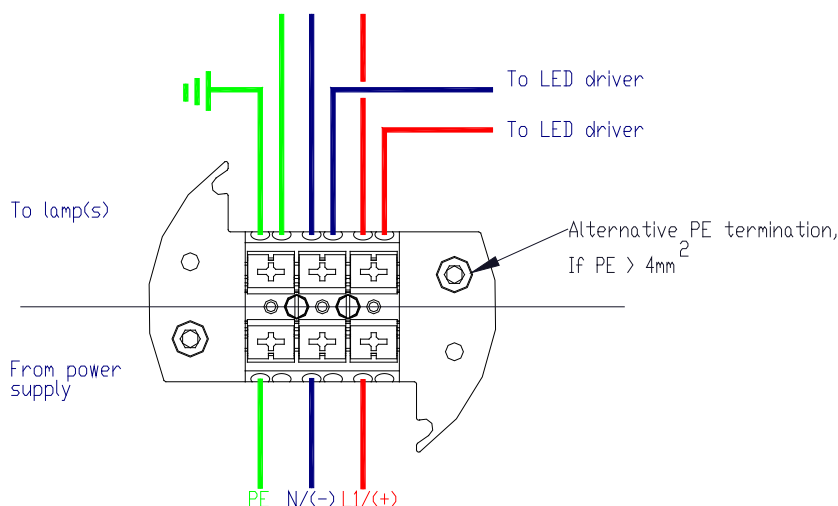
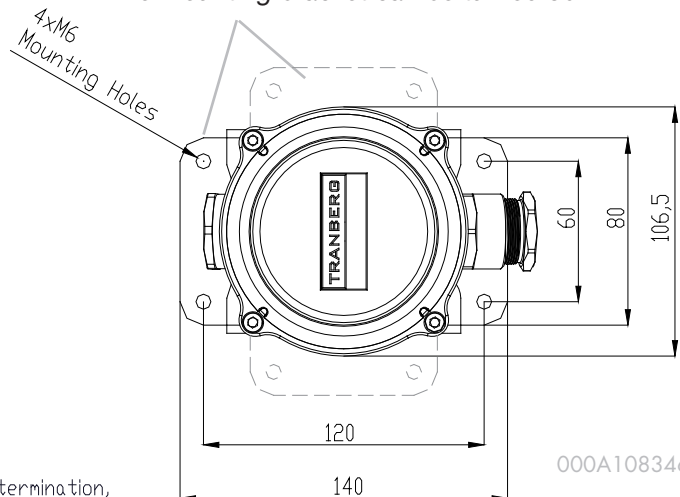
The terminals in this luminaire consist of a terminal block for phase conductors and PE. Two M5 PE screws are fitted to accept PE cables larger than 4mm². The terminal block is of the "Cage clamp" type, and there is no need for a tool to connect or disconnect the phase conductors. Nevertheless a large screwdriver, preferably flathead, may be of good help.

Make sure to use IECEx /ATEX approved cable glands (IEC 60079-0:2007, IEC 60079-0:2009), approved for the specific cable diameter and type. These data can be found in the cable gland datasheet.

Any damage caused by the use of an incorrect combination of cable and cable gland is not the responsibility of Tranberg AS and is not covered by warranty.



The mounting bracket can be turned 90°



SPARE PARTS

Description	Part No.
Glass dome	50480032
Cable gland ATEX / IECEx	Acc. to cable dim.

TECHNICAL DATA

Material:	Hot-forged and machined brass, Glass dome
Power consumption:	< 10 W
Input voltage:	100-254V AC 45-65Hz or 24V DC +/-30% depending on model
Permitted supply	50 A @ 24VDC +/- 30%
short-circuit current:	1500A @ 100-254V AC 45-65Hz
Expected lifetime:	To be within specified light output for >50 000 h
Weight:	4 kg
IP rating:	IP 66. (IP 67 without drain plug, according to IEC 60529)
Cable entries:	2 PCS. M25 x 1.5 entries for IECEx / ATEX approved cable glands according to IEC 60079-0:2007, IEC 60079-0:2009. Delivered with Tranberg cable glands.
Ex classification:	Ex e mb op is IIC T5 Gb
Ex certificate no.:	IECEx Pre 14.0009 Presafe 14ATEX4571
CE marking:	CE 0470
Tamb:	-55°C to +55°C
Manufacturer:	Tranberg AS